



ALPHA ROOFING

136, Vihav Trade Centre (VTC), Near Waves Club 30 mt bhayli canal ring road, Bhayli, Vadodara, Gujarat 391410 Phone no.: 07984365282 Email: alpharoofigindia@gmail.com GSTIN: 24ANYP9527A1ZL State: 24-Gujarat UDYAM REGISTRATION NUMBER: UDYAM-GJ-24-0060643

TECHNICAL DATA SHEET

INSULATED SANDWICH PANELS

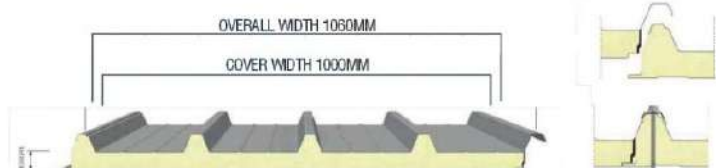
Sandwich Panel are typically single piece, prefabricated, modular, factory made units which consist of an insulating layer of rigid polyurethane foam or high density Rockwool between two layers of metal sheet . Insulation core provides effective thermal insulation and long lasting strong bonding for better structural stability to facilitate higher loading and wider spans. It is highly suitable for energy saving, faster construction and cost effectiveness.

PRODUCT	PUF PANEL		
Length of Panel	Up to 12.2 MTR any size	Density (kg/m ³)	40(+/-2)
Width- Wall	Supply width 1020mm standard and covering width 1000mm	Thermal conductivity at 10c* mean temperature (w/m*k)	0.023
Width- Roof	Supply width 1060mm standard and covering width 1000mm	Compressive strength at 10% deformation (kg/cm ²)	2.1
PPGI (Pre Powder coated galvanized sheet) Thickness (mm)	0.4 mm / 0.45 mm / 0.5mm / 0.6mm / 0.7 mm / 0.8 mm	Bending strength (kg/cm ²)	4
Puf Core Thickness (mm) Wall	30, 40 , 50 , 60, 80, 100, 120	Tensile strength (kg/cm ²)	3.7
Puf Core Thickness (mm) Roof	30, 40, 50, 60, 80, 100, 120	Adhesive strength (kg/cm ²)- foam to steel	2.9
U Value (w/m ² K)	0.53 , 0.43 , 0.33 , 0.28 , 0.22, 0.18, 0.15	Water absorption (volume%)	0.2% at 100% RH
R Value (h-ft ² ·*f/btu)	11, 13, 16, 20, 26, 30, 3, 8	Closed Cell Content (%)	92-95%
Facia Options	PPGI, PPGL,	Vapour permeability at 90% RH & 38.0c (Gms / Hr.sqm)	0.12
		Fire Class	Fire Retardant Optional

** Third Party Lab Test Charges will applicable if you want Lab Test Report along with the material.

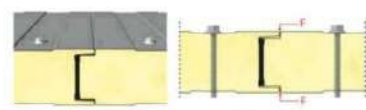
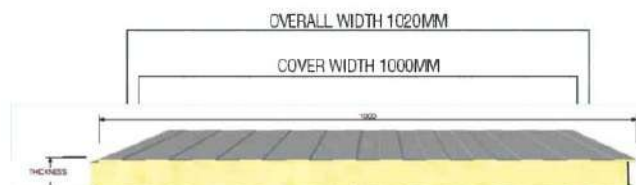
ROOF PUF PANEL

THICKNESS RANGE (MM)
30, 40, 50, 60, 80, 100, 120MM

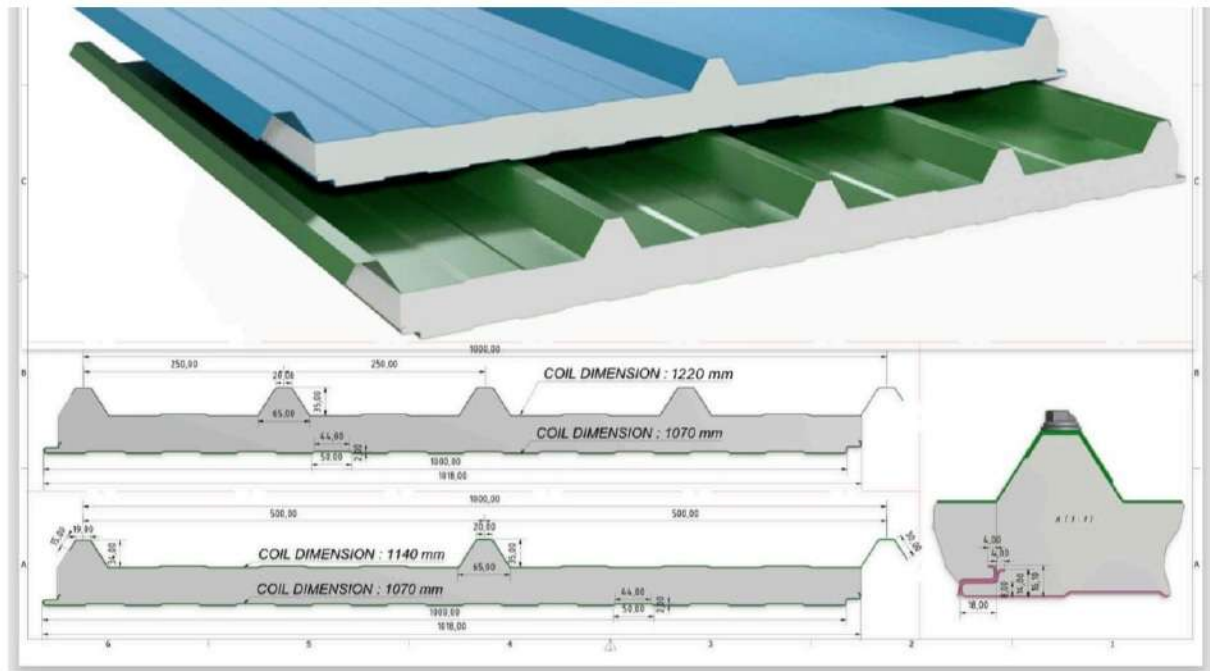


WALL PUF PANEL

THICKNESS RANGE (MM)
30, 40, 50, 60, 80, 100MM



METAL TONGUE & GROOVE JOINT



BASIC PROPERTIES OF INSULATION CORES

PUF

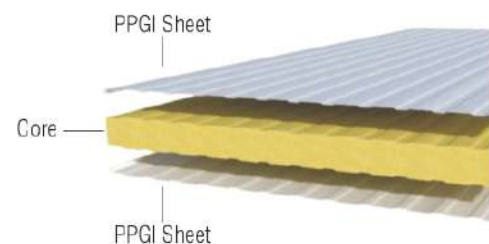
Rigid polyurethane foam

Most Popular, Widely used, Ideal Insulator. It is thermosetting Material when exposed to fire, does not drip or melt; forms a strong carbonaceous char that protects the core and prevents spread of flame. additions of FR Agents further augment fire retardant properties.

PIR

Polyisocyanurate Foam

Offers higher fire rating and is non-ignitable. better closed cell structure offered by trimerisation process offers better thermal performance. It is CFC free, Longer lasting, hygienic and food safe. Ideal for Cold Rooms. It is CFC free & self extinguishing. Conforms to IS-12436-88

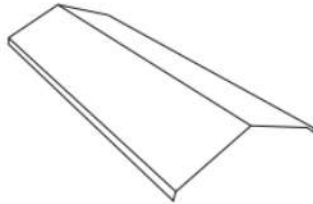


COLOR OPTIONS



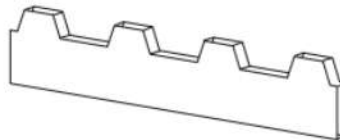
ACCESSORIES

FOR ROOF PANEL



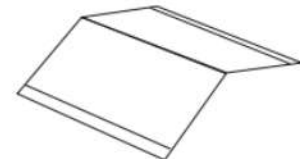
EXTERNAL PROFILE RIDGE
For Roof TOP Made out of 0.45mm
TCT PPGI Sheet
250 x 250 3 mtr

FOR ROOF PANEL



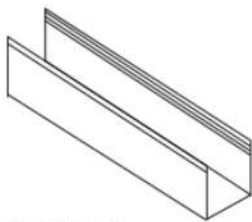
**ROOF TRAPEZOIDAL
END CAP**
Made out of 0.45mm
TCT PPGI Sheet

FOR ROOF PANEL



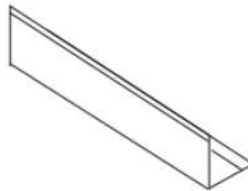
INTERNAL RIDGE
For Roof Bottom, Made out of
0.45mm TCT PPGI Sheet
250 x 250 3 mtr

FOR WALL PANEL



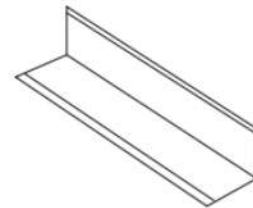
C-CHANNEL -
For Wall Bottom and for door and
window cutout, made out of 0.45mm
TCT PPGI Sheet 3mtr.
Customize as per wall size.

ACCESSORIES



INTERNAL L- Angle
For Internal Wall to wall corner,
internal roof to wall corner and
external roof to wall corner,
made out of 0.45mm TCT PPGI
Sheet 40x40 3mtr.

ACCESSORIES



EXTERNAL L- Angle
For External wall to wall corner
made out of 0.45 mm TCT
PPGI Sheet & Customize as
per wall size 3mtr



TERMITES
RESISTANCE



WEATHER
RESISTANCE



LOW
MAINTENANCE



COST
EFFECTIVE



QUICK
INSTALLATION

CONTACT: +91 – 798 436 5282